Expert Second Opinion: ER-Positive and Triple-Negative Breast Cancer

> Wednesday, June 23, 2021 5:00 PM – 6:00 PM ET

Faculty Matthew P Goetz, MD Hope S Rugo, MD Melinda Telli, MD



Faculty



Matthew P Goetz, MD

Erivan K Haub Family Professor of Cancer Research Honoring Richard F Emslander, MD Professor of Oncology and Pharmacology Director, Mayo Clinic Breast SPORE Co-Leader, Women's Cancer Program Mayo Clinic Rochester, Minnesota



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Dr Goetz — Disclosures

No relevant conflicts of interest to disclose.



Dr Rugo — Disclosures

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ONCOLOGY TODAY WITH DR NEIL LOVE ER-Positive Metastatic Breast Cancer



DR ERIKA HAMILTON SARAH CANNON RESEARCH INSTITUTE NASHVILLE, TENNESSEE









Dr Erika Hamilton ER-Positive Metasta Oncology Today with Dr Neil Love —

(15) (30)

17 Exciting CME/MOC Events You Do Not Want to Miss

A Live Webinar Series Held in Conjunction with the 2021 ASCO Annual Meeting

HER2-Positive Breast Cancer Tuesday, June 22 5:00 PM – 6:00 PM ET

ER-Positive and Triple-Negative Breast Cancer Wednesday, June 23 5:00 PM – 6:00 PM ET

Chronic Lymphocytic Leukemia and Follicular Lymphoma Tuesday, June 29 5:00 PM – 6:00 PM ET

Multiple Myeloma Wednesday, June 30 5:00 PM – 6:00 PM ET

Ovarian Cancer Wednesday, July 7 5:00 PM – 6:00 PM ET

Hormonal Therapy for Prostate Cancer Monday, July 12 5:00 PM – 6:00 PM ET

Chimeric Antigen Receptor T-Cell Therapy Tuesday, July 13 5:00 PM – 6:00 PM ET

Acute Myeloid Leukemia and Myelodysplastic Syndromes Wednesday, July 14 5:00 PM – 6:00 PM ET

Metastatic Castration-Resistant Prostate Cancer Tuesday, July 20 5:00 PM – 6:00 PM ET

Bladder Cancer Wednesday, July 21 5:00 PM – 6:00 PM ET

Endometrial and Cervical Cancers Monday, July 26 5:00 PM – 6:00 PM ET

Targeted Therapy for Non-Small Cell Lung Cancer Tuesday, July 27 5:00 PM – 6:00 PM ET Immunotherapy and Other Nontargeted Approaches for Lung Cancer Wednesday, July 28 5:00 PM – 6:00 PM ET

Mantle Cell, Diffuse Large B-Cell and Hodgkin Lymphoma Monday, August 2 5:00 PM – 6:00 PM ET

Colorectal and Gastroesophageal Cancers Tuesday, August 3 5:00 PM – 6:30 PM ET

Hepatocellular Carcinoma and Pancreatic Cancer Wednesday, August 4 5:00 PM – 6:30 PM ET

Head and Neck Cancer Wednesday, August 11 5:00 PM – 6:00 PM ET



ASCO Highlights and More: Investigators Review Recent Data Sets and Provide Perspectives on Current Oncology Care

A Daylong Multitumor Educational Webinar in Partnership with the Texas Society of Clinical Oncology (TxSCO)

Saturday, June 26, 2021 8:00 AM – 3:00 PM Central Time (9:00 AM – 4:00 PM Eastern Time)



Video Consensus or Controversy? Chronic Lymphocytic Leukemia and Follicular Lymphoma

> Tuesday, June 29, 2021 5:00 PM – 6:00 PM ET

Faculty Nathan H Fowler, MD Prof John G Gribben, MD, DSc, FMedSci Brad S Kahl, MD



Video Consensus or Controversy? Multiple Myeloma

Wednesday, June 30, 2021 5:00 PM – 6:00 PM ET

Faculty Natalie S Callander, MD Shaji K Kumar, MD Sagar Lonial, MD



Ask the Expert: Clinical Investigators Provide Perspectives on the Management of Renal Cell Carcinoma

In Partnership with Project Echo® and Florida Cancer Specialists

Tuesday, July 6, 2021 5:00 PM – 6:00 PM ET

Faculty David I Quinn, MBBS, PhD



Thank you for joining us!

CME and MOC credit information will be emailed to each participant within 24 hours.



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Faculty Michael J Birrer, MD, PhD Kathleen Moore, MD Additional faculty to be announced



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Contributing Oncologists



Reshma Mahtani, DO Associate Professor of Medicine Co-Leader, Breast Cancer Program Sylvester Cancer Center University of Miami Miami, Florida



Ann Partridge, MD, MPH Vice Chair of Medical Oncology Director, Program for Young Women with Breast Cancer Director, Adult Survivorship Program Dana-Farber Cancer Institute Professor of Medicine Harvard Medical School Boston, Massachusetts



Ruth O'Regan, MD Chair, Department of Medicine Charles A Dewey Professor of Medicine University of Rochester Rochester, New York



Agenda

Module 1: Evolving Clinical Decision-Making for Patients with ER-Positive, HER2-Negative Localized Breast Cancer

- Dr O'Regan: A 54-year-old postmenopausal woman with ER-positive, PR-negative, HER2-negative pT1cN1 breast cancer
- Dr Mahtani: A 43-year-old woman with 6-cm ER-positive, HER2-negative localized breast cancer

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- Dr Partridge: A 37-year-old woman with ER-positive, HER2-negative mBC germline BRCA1 mutation

Module 3: New Directions in the Treatment of Triple-Negative Breast Cancer (TNBC)

• Dr Partridge: A 52-year-old woman with metastatic TNBC – PD-L1-positive



Considering that it is an indirect comparison, globally how would you compare the efficacy of olaparib for metastatic breast cancer with a germline BRCA mutation to that of osimertinib for metastatic lung cancer with an EGFR mutation?

- 1. About the same
- 2. Olaparib is slightly more efficacious
- 3. Olaparib is much more efficacious
- 4. Osimertinib is slightly more efficacious
- 5. Osimertinib is much more efficacious
- 6. I don't know



NEOADJUVANT TALAZOPARIB IN PATIENTS WITH GERMLINE *BRCA1/2* MUTATION-POSITIVE, EARLY HER2-NEGATIVE BREAST CANCER: RESULTS OF A PHASE 2 STUDY

Jennifer K. Litton,¹ J. Thaddeus Beck,² Jason M. Jones,³ Jay Andersen,⁴ Joanne L. Blum,⁵ Lida A. Mina,⁶ Raymond Brig,⁷ Michael Danso,⁸ Yuan Yuan,⁹ Antonello Abbattista,¹⁰ Kay Noonan,¹¹ Jayeta Chakrabarti,¹² Akos Czibere,¹³ William F. Symmans,¹ Melinda L. Telli¹⁴

¹The University of Texas MD Anderson Cancer Center, Houston, TX, USA; ²Highlands Oncology Group, Fayetteville, AR, USA; ³Avera Cancer Institute, Sioux Falls, SD, USA; ⁴Compass Oncology, West Cancer Center, Tigard, OR, USA; ⁵Texas Oncology-Baylor Charles A. Sammons Cancer Center, US Oncology Network, Dallas, TX, USA; ⁶Banner MD Anderson Cancer Center, Gilbert, AZ, USA; ⁷Brig Center for Cancer Care and Survivorship, Knoxville, TN, USA; ⁸Virginia Oncology Associates, Norfolk, VA, USA; ⁹City of Hope Comprehensive Cancer Center and Beckman Research Institute, Duarte, CA, USA; ¹⁰Pfizer Oncology, Milan, Italy; ¹¹Pfizer Inc., Groton, CT, USA; ¹²Pfizer, Walton Oaks, Surrey, UK; ¹³Pfizer Inc., Cambridge, MA, USA; ¹⁴Stanford University School of Medicine, Stanford, CA, USA

June 6, 2021

2021 ASCO

ANNUAL MEETING

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Pathologic Complete Response



Presented By: Jennifer K. Litton

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Courtesy of Melinda Telli, MD
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Module 3: New Directions in the Treatment of Triple-Negative Breast Cancer (TNBC)

• Dr Partridge: A 52-year-old woman with metastatic TNBC – PD-L1-positive



A 52-year-old woman presents with a 2.1-cm Grade II, ER/PR-positive, HER2-negative infiltrating ductal carcinoma (IDC) with 1 positive sentinel lymph node. Would you order a genomic assay for this patient?

- 1. No, regardless of menopausal status
- 2. Yes, the 21-gene assay regardless of menopausal status
- 3. Yes, other genomic assay regardless of menopausal status
- 4. Yes, the 21-gene assay if postmenopausal
- 5. Yes, other genomic assay if postmenopausal
- 6. Yes, other



Which adjuvant therapy would you generally recommend for a postmenopausal woman with a 2.1-cm, Grade II, ER/PR-positive, HER2-negative IDC with 1 positive sentinel node and a 21-gene Recurrence Score[®] of 10?

- 1. Tamoxifen
- 2. Aromatase inhibitor (AI) alone
- 3. AI + abemaciclib
- 4. Chemotherapy \rightarrow endocrine therapy
- 5. Chemotherapy \rightarrow AI + abemaciclib
- 6. Other



Which adjuvant therapy would you generally recommend for a 54-year-old postmenopausal woman with ER-positive, PR-negative, HER2-negative pT1c breast cancer with 1 positive node and a 21-gene Recurrence Score of 21?

- 1. Tamoxifen
- 2. Aromatase inhibitor (AI) alone
- 3. AI + abemaciclib
- 4. Chemotherapy \rightarrow endocrine therapy
- 5. Chemotherapy \rightarrow AI + abemaciclib
- 6. Other



Case Presentation – Dr O'Regan: A 54-year-old postmenopausal woman with ER-positive, PR-negative, HER2-negative pT1cN1 breast cancer

- Presents with an abnormal screening mammogram
- Ultrasound confirms 13-mm mass in the right breast
- Biopsy: Grade 2, ER-positive, PR-negative, HER2-negative IDC
- Partial mastectomy with SLNB
 - pT1c, N1 (one node positive)
 - Oncotype DX[®] RS: 21

Questions

- In a younger patient with an intermediate Recurrence Score of 21 and node-positive disease, do you believe she should receive adjuvant chemotherapy, or are you comfortable with endocrine therapy alone?
- Would you order any other genomic tests for this patient?



Dr Ruth O'Regan



A 43-year-old woman with 6-cm ER-positive, HER2-negative localized breast cancer receives neoadjuvant AC followed by paclitaxel and at surgery is found to have multifocal residual disease and 1 positive lymph node. In addition to radiation therapy and endocrine treatment, which of the following, if any, would you include as postoperative therapy?

- 1. Chemotherapy
- 2. Abemaciclib
- 3. Both chemotherapy and abemaciclib
- 4. Neither chemotherapy nor abemaciclib
- 5. Other



Case Presentation – Dr Mahtani: A 43-year-old woman with 6-cm ER-positive, HER2-negative localized breast cancer



Dr Reshma Mahtani

- Presented with palpable right breast mass, and by MMG/US the lesion was 6 cm with associated pleomorphic calcifications, right axillary node abnormal
 - Biopsy of mass and axillary node: IDC, grade 3, ER+/PR+/HER2 negative
 - No distant disease on staging scans
- Neoadjuvant AC followed by paclitaxel \rightarrow bilateral mastectomy with right ALND
 - Multi-focal residual disease noted, 1-2 mm with multiple areas of residual DCIS, 1/25 nodes with ITCs

Questions

- How are you using the data from monarchE and KATHERINE for the management of patients with a very good response to neoadjuvant therapy?
- Are you using genomic assays to aid in treatment decisions in the neoadjuvant setting?



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Adjuvant Chemotherapy Guided by a 21-Gene Expression Assay in Breast Cancer

J.A. Sparano, R.J. Gray, D.F. Makower, K.I. Pritchard, K.S. Albain, D.F. Hayes, C.E. Geyer, Jr., E.C. Dees, M.P. Goetz, J.A. Olson, Jr., T. Lively, S.S. Badve, T.J. Saphner, L.I. Wagner, T.J. Whelan, M.J. Ellis, S. Paik, W.C. Wood, P.M. Ravdin, M.M. Keane, H.L. Gomez Moreno, P.S. Reddy, T.F. Goggins, I.A. Mayer, A.M. Brufsky, D.L. Toppmeyer, V.G. Kaklamani, J.L. Berenberg, J. Abrams, and G.W. Sledge, Jr.

N Engl J Med 2018;379:111-21.



RxPONDER Schema



* After randomization of 2,493 pts, the protocol was amended to exclude enrollment of pts with pN1mic as only nodal disease.

** Approved chemotherapy regimens included TC, FAC (or FEC), AC/T (or EC/T), FAC/T (or FEC/T). AC alone or CMF not allowed.

ALND = Axillary Lymph Node Dissection, SLNB = Sentinel Lymph Node Biopsy

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RxPONDER: IDFS in Overall Population by Treatment Arm



CET = Chemotherapy + Endocrine Therapy; ET = Endocrine Therapy Alone

447 observed IDFS events (54% of expected at final analysis) at a median follow-up of 5.1 years





RxPONDER: IDFS Stratified by Menopausal Status



Postmenopausal

IDFS Event	CET	ET	Total (%)
Distant	39	44	83 (27%)
Local-Regional	10	14	24 (8%)
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Contralatoral	10	0	10 (070)
Non-Breast Primary	44	47	91 (30%)
Recurrence Not Classified	9	7	16 (5%)
Death not due to Recurrence or Second Primary	35	37	72 (24%)

Absolute Difference in Distant Recurrence as 1^{st} site: 0.3% (2.3% CET vs. 2.6% ET)

Premenopausal



IDFS Event	CET	ET	Total (%)
Distant	26	50	76 (54%)
Local-Regional	8	17	25 (18%)
Contralateral	4	8	12 (8%)
Non-Breast Primary	10	10	20 (14%)
Recurrence Not Classified	1	1	2 (1%)
Death not due to Recurrence or Second Primary	2	5	7 (5%)

Absolute Difference in Distant Recurrence as 1^{st} site: 2.9% (3.1% CET vs. 6.0% ET)





ADAPT HR+/HER2-

Primary endpoint: 5-year iDFS





Trial Hypothesis: 5y-iDFS Noninferiority

95%-LCL of 5y-iDFS difference: -3.3% (RS12-25/ET-responders vs. RS0-11)

The one-sided lower 95% confidence limit of the observed 5y-iDFS difference (-1.3%) was -3.3%; thus, the pre-specified criterion to accept the primary NI-hypothesis was met (p=.05).





ADAPT HR+/HER2-Distant disease-free and overall survival



SWOG CANCER RESEARCH NETWORK



MonarchE: Invasive Disease-Free Survival

Median follow up at the interim analysis: ~15.5 months in each arm

12.5% of patients had completed the 2-year treatment period



Over 70% of patients were still in 2-year treatment period



Two-year IDFS rates were 92.2% (abemaciclib + ET arm) and 88.7% (ET arm) – 3.5% absolute difference

Courtesy of Matthew P Goetz, MD

Johnston et al. J Clin Oncol 2020

MonarchE: Patients who received neoadjuvant chemotherapy (NAC)

Abemaciclib combined with adjuvant endocrine therapy in patients with high risk early breast cancer who received neoadjuvant chemotherapy (NAC)

<u>Miguel Martin¹</u>, Roberto Hegg², Sung-Bae Kim³, Michael Schenker⁴, Daniela Grecea⁵, Jose Angel Garcia-Saenz⁶, Konstantinos Papazisis⁷, QuChang Ouyang⁸, Aleksandra Lacko⁹, Berna Oksuzoglu¹⁰, James Reeves¹¹, Meena Okera¹², Laura Testa¹³, Chikako Shimizu¹⁴, Ran Wei¹⁵, Tammy Forrester¹⁵, Maria Munoz¹⁵, Annamaria Zimmermann¹⁵, Desiree Headley¹⁵, Stephen Johnston¹⁶

Martin M et al. ASCO 2021; Abstract 517.

MonarchE: Patient Population and Analyses

- monarchE patient population:
 - Patients with ≥4 positive axillary lymph nodes (ALN), or 1-3 ALN and either tumor size ≥5 cm, Grade 3 disease, or central Ki-67 ≥20%
 - Prior chemotherapy (NAC, adjuvant, none) was one of the stratification factors
 - 2056 patients received NAC (36% of the monarchE ITT population)
- Within the patients who received NAC, the treatment effect of abemaciclib plus ET was evaluated using Cox Proportional Hazard model and Kaplan-Meier method, in terms of IDFS and DRFS

Prior NAC received, n (%)	Abemaciclib + ET N=1025	ET Alone N=1031
Anthracycline + Taxane	903 (88.1)	931 (90.3)
Anthracycline (without Taxane)	71 (6.9)	59 (5.7)
Taxane + Cyclophosphamide	28 (2.7)	23 (2.2)
Other ^a	23 (2.2)	18 (1.7)

MonarchE: IDFS/DRFS in Patients Who Received NAC



Two-year IDFS rates were 87.2% in the abemaciclib + ET arm and 80.6% in the ET arm - 6.6% difference



Two-year DRFS rates were 89.5% in the abemaciclib + ET arm and 82.8% in ET arm – 6.7% difference

PENELOPE-B: IDFS and OS



Regulatory and reimbursement issues aside, to which of the following patients with breast cancer and a BRCA germline mutation would you offer adjuvant olaparib?

- 1. A patient with TNBC and residual disease after neoadjuvant therapy
- 2. A patient with ER-positive, HER2-negative, node-negative breast cancer and a high Recurrence Score
- 3. Both
- 4. Neither



Regulatory and reimbursement issues aside, to which of the following patients with ER-positive, HER2-negative breast cancer and 2 positive nodes would you offer adjuvant olaparib?

- 1. A patient with a somatic BRCA mutation
- 2. A patient with a PALB2 mutation
- 3. Both
- 4. Neither











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A phase III, multicenter, randomized, placebo-controlled trial of adjuvant olaparib after (neo)adjuvant chemotherapy in patients with germline *BRCA1/2* mutations and high-risk HER2-negative early breast cancer

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OlympiA: Invasive disease-free survival (ITT)



ANNUAL MEETING

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OlympiA: Invasive disease-free survival (mature cohort)



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OlympiA: Distant disease-free survival



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OlympiA: Adverse events of any grade ≥ 10%



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A patient with ER-positive, HER2-negative breast cancer receives palbociclib/fulvestrant after relapse on adjuvant letrozole. Genomic testing reveals a PIK3CA mutation. What would be your most likely next endocrine therapy?

- 1. Alpelisib
- 2. Alpelisib/fulvestrant
- 3. Alpelisib with other endocrine therapy
- 4. Other



A patient with ER-positive mBC experiences asymptomatic disease progression on palbociclib/letrozole. Genomic testing reveals a PIK3CA mutation. Her baseline fasting glucose is 130 mg/dL and hemoglobin A1c = 6.5%. Would you recommend alpelisib/fulvestrant for this patient?

1. No

- 2. Yes, with standard-dose alpelisib
- 3. Yes, with reduced-dose alpelisib



Case Presentation – Dr O'Regan: A 55-year-old woman with ER-positive, PR-negative, HER2-negative metastatic breast cancer

- Presents with hip pain
- Systemic imaging: Liver and bone metastases
- Liver biopsy: Adenocarcinoma, ER-positive, PR-negative, HER2-negative
- Palbociclib with anastrozole \rightarrow PD 18 months later
- Liver biopsy sent for NGS: PI3-kinase mutation
- Alpelisib/fulvestrant x 5 months, with hyperglycemia requiring metformin, dose reductions

Questions

- If this patient had received fulvestrant with the CDK4/6 inhibitor, what endocrine therapy would you have partnered with alpelisib?
- How commonly are you seeing hyperglycemia in patients receiving alpelisib? Rash?
- What would you recommend as her next treatment if her disease progresses? Have you used everolimus in a patient who has already received alpelisib?



Dr Ruth O'Regan



Case Presentation – Dr Mahtani: A 50-year-old woman with ER-positive, HER2-negative metastatic breast cancer and a germline BRCA2 mutation



- A post-menopausal woman who initially presented for consideration of neoadjuvant Chemotherapy for a cT3N1 ER+/HER2- breast cancer
 - Imaging: Multiple lesions suspicious for bone metastases, mediastinal adenopathy, elevated markers
 - Patient declined a biopsy; no family history of breast, ovarian, or prostate cancer
- Palbociclib/letrozole with good response but eventual progression in the breast and bone
- No PIK3CA mutation identified
- Fulvestrant with no response after 3 months
- Offered BRCA testing (in the absence of family history) and found to have a germline BRCA2 mutation
- 6/2020: Talazoparib with ongoing response

Questions

• How are you sequencing a PARP inhibitor in a patient with ER-positive disease? If you had known that she carried a BRCA mutation, would you have used the PARP inhibitor before fulvestrant?



Case Presentation – Dr Partridge: A 37-year-old woman with ER-positive, HER2-negative metastatic breast cancer and a germline BRCA1 mutation



Dr Ann Partridge

- 2012: Initial diagnosis of left-sided IDC, grade 3, ER/PR positive and HER2 +3 (BWH marked HER2 heterogeneity)
 - s/p bilateral mastectomies and adjuvant AC-TH; tamoxifen with zoledronic acid
- Genetic testing: germline BRCA1 mutation
- 5/2019: Increasing shortness of breath and back pain; CTA revealed a left-sided pleural effusion, a patchy LUL opacity, lytic lesions in the sternum and T10, several rib fractures and a suspected liver metastasis
 - Biopsy of left axillary lymph node: IDC, grade 2, ER positive 95%-strong, PR positive 5%-weak, HER2 +2, FISH negative (ratio = 1.9)
- 6/2019: Starts first line olaparib

Questions

 What would you recommend as first-line therapy for a patient with advanced HR-positive, HER2-negative breast cancer in the setting of a known BRCA1 mutation? Do you go with a PARP inhibitor or an antiestrogen with a CDK4/6 inhibitor? Or all of the above?



Overall Survival Benefit with CDK4/6 Inhibitors for ER-Positive, HER2-Negative Metastatic Breast Cancer

- MONALEESA-7¹: Ribociclib + endocrine therapy
 - HR (95% CI): 0.763 (0.608-0.956); Months: 58.7 vs 48.0
- MONALEESA-3²: Ribociclib + fulvestrant
 - HR (95% CI): 0.726 (0.588-0.897); Months: 53.7 vs 41.5
- MONARCH 2³: Abemaciclib + fulvestrant
 - HR (95% CI): 0.757 (0.606-0.945); Months: 46.7 vs 37.3
- PALOMA-3⁴: Palbociclib + fulvestrant
 - HR (95% CI): 0.81 (0.65-0.99); Months: 34.8 vs 28.0

CDK4/6i after CDK4/6i

- 6 institution retrospective analysis
 - 87 patients treated with abemaciclib post palbociclib
 - 9.2% stopped abemaciclib due to toxicity without progression
 - 71.3% received non-sequential therapy with <a>1 intervening non-CDK4/6i regimen
 - Endocrine partners
 - Fulvestrant: 47.1%; aromatase inhibitor: 27.6%; monotherapy: 19.5%
- Efficacy
 - 36.8% received abemaciclib for <u>></u> 6 months
 - There was no relationship between the duration of clinical benefit on palbociclib and the subsequent duration of treatment on abemaciclib
- Rapid progression on abemaciclib associated with RB1, ERBB2, and CCNE1 alterations were noted among patients with rapid progression on abemaciclib.



Wander S et al. JNCCN 2021

Mechanisms of Resistance to CDK4/6 inhibitors



Gain-of-Function PI3K Mutations

- PI3K pathway hyperactivation due to *PIK3CA* mutations contributes to endocrine resistance
- PIK3CA is one of the most frequently mutated genes in BC, occurring in approximately 40% of HR+, HER2– ABCs
- The presence of a *PIK3CA* mutation is a negative prognostic factor in HR+, HER2–ABC

Impact of PIK3CA Mutations in SAFIR02 PIK3CA Mutations in 28% of HR+/HER2- MBC (associated with older age and lower tumor grade)



Mukohara T. Breast Cancer (Dove Med Press). 2015;7:111-123; Cancer Genome Atlas Network. Nature. 2012;490(7418):61-70; Mollon L, et al. AACR 2018. Poster 1207; Moynahan ME, et al. Br J Cancer. 2017;116(6):726-730; Tolaney S, et al. AACR 2019. Abstract 4458; Di Leo A, et al. Lancet Oncol. 2018;19(1):87-100; 7. Sobhani N, et al. J Cell Biochem. 2018;119(6):4287-4292; Mosele F, et al. Ann Oncol. 2020;31(3):377-386; Lai YL, et al. Ann Surg Oncol. 2008;15(4):1064-1069. Courtesy of Hope S Rugo, MD

SOLAR-1: Primary Endpoint of Locally Assessed PFS in the PIK3CA-mutant Cohort with Alpelisib, an Alpha Specific PI3K Inhibitor



Data cut-off:	ALP + FUL	PBO + FUL
Jun 12, 2018	(n = 169)	(n = 172)
Number of PFS events, n (%)	103 (60.9)	129 (75.0)
Progression	99 (58.6)	120 (69.8)
Death	4 (2.4)	9 (5.2)
Censored	66 (39.1)	43 (25.0)
Median PFS (95% CI)	11.0 (7.5-14.5)	5.7 (3.7-7.4)
HR (95% CI)	0.65 (0.	50-0.85)
One-sided P value	0.00	065

CI, confidence interval; HR, hazard ratio; PFS, progression-free survival.

Event-free probability (%)

At final PFS analysis, superiority was declared if one-sided, stratified log-rank test P value was ≤ 0.0199 (Haybittle–Peto boundary). ^a Mutation status determined from tissue biopsy.

Similar results when PI3K mutation determined in plasma using ctDNA

Only 6% had prior exposure to a CDK4/6i

Locally Assessed PFS by Tissue or Plasma ctDNA Mutation Status





	ALP + FUL		PBO + FUL		
	Event n/N (%)	Median PFS	Event n/N (%)	Median PFS	HR
Patients with PIK3CA mutation: tissue	103/169 (60.9)	11.0	129/172 (75.0)	5.7	0.65
Patients with PIK3CA mutation: plasma	57/92 (62.0)	10.9	75/94 (79.8)	3.7	0.55
Patients <u>without</u> PIK3CA mutation: tissue	49/115 (42.6)	7.4	57/116 (49.1)	5.6	0.85
Patients <u>without</u> PIK3CA mutation: plasma	92/181 (50.8)	8.8	103/182 (56.6)	7.3	0.80

Andre et al, NEJM 2019; Juric et al, SABCS 2018

Courtesy of Hope S Rugo, MD

ctDNA, circulating tumor DNA; HR, hazard ratio; PFS, progression-free survival; QD, once daily. This presentation is the intellectual property of Dejan Juric. Contact Juric Dejan@mgh.harvard.edu for permission to reprint and/or distribute

61 54 52 44 43 41 38 34 31 29 24 23 19 18 16
SOLAR-1: Overall Survival



still at risk														
Alpelisib + FUL	169	162	159	156	145	141	138	133	126	122	112	111	108	103

- Placebo +
 - mOS prolonged by 7.9 mo for pts ٠ receiving alpelisib + fulvestrant
 - Final OS in the PIK3CA mutant cohort did • not cross the pre-specified efficacy boundary (1-sided p<0.0161)

92 86 80 74 73 60 42 29

Andre et al, Ann Oncol 2021



Overall survival in patients with PIK3CA-mutated cancer with lung/liver metastases

Courtesy of Hope S Rugo, MD

BYLieve Cohort A: Primary Endpoint and PFS Results

(prior AI + CDK4/6i as last treatment)



The primary endpoint for the prior CDKi + AI cohort was met (lower bound of 95% CI was > 30%), with 50.4% of patients alive without disease progression at 6 months

- Median OS 17.3 months
- In SOLAR-1, 44.4% of patients in the PIK3CA-mutant cohort with prior CDKi treated with alpelisib plus fulvestrant were alive without disease progression at 6 months
- Median PFS Cohort B: 5.7 months; letrozole/alpelisib with 82% prior PD on AI; 46% alive and without PD at 6 months

PFS Effect of Alpelisib Over Standard Treatments in Real-World Setting

Analysis Method (In Patients With <i>PIK3CA</i> Mutation)	BYLieve Prior CDKi +AI (Cohort A) Alpelisib + Fulvestrant median-PFS (mo) (95% CI), n	Flatiron/FMI Standard Treatment median-rwPFS (mo) (95% CI), n
Unadjusted results	7.3 (5.6-8.3), n=120	3.6 (3.1-6.1), n=95
Weighting by odds	7.3 (5.6-8.3), n=120	3.7 (3.1-6.1), n=116
Propensity score matching	8.0 (5.6-8.6), n=76	3.5 (3.0-5.4), n=76
Exact matching	6.5 (5.3-8.3), n=61	3.4 (2.9-3.9), n=61

Matched analysis comparing BYLieve with RWE standard treatment in post-CDK4/6i setting further supports use of alpelisib + fulvestrant

Time Course of Adverse Events in SOLAR-1

- The most common grade ≥3 AEs in the ALP arm were hyperglycemia, rash, and diarrhea
- In the ALP arm, hyperglycemia and/or rash were typically experienced in the first few weeks of treatment with ALP + FUL, whereas GI toxicities could occur at any time during study therapy
- Median time to onset and median time to improvement by ≥1 grade are shown in the table below



Probability of First Occurrence of Grade 3 AESI Events

AE, adverse event; AESI, adverse event of special interest; ALP, alpelisib; FUL, fulvestrant; GI, gastrointestinal; PBO, placebo.

^a Based on laboratory values rather than single preferred term.

^b Based on grouped terms.

^c Of the grade ≥ 3 gastrointestinal (GI) toxicities, 76% of them were grade ≥ 3 diarrhea.

FAKTION: Capivasertib + Fulvestrant for AI-Resistant ER-Positive, HER2-Negative mBC

- Phase II study of capivasertib + fulvestrant vs placebo + fulvestrant (N = 140)
 - Relapse or progression on an AI
 - Capivasertib (AZD5363): selective, oral AKT inhibitor
- Capivasertib + fulvestrant improved PFS in endocrine-resistant mBC vs placebo + fulvestrant
 - Primary endpoint met
 - Trend toward improvement in OS
- Ongoing Phase III CAPitello291 Trial
- IPATunit150: ipatasertib +/- palbociclib and fulvestrant

Outcome	CAP + FULV (n = 69)	PBO + FULV (n = 71)		
Median PFS, mos	10.3	4.8		
	HR: 0.57 <i>P</i> = .0035			
Median OS, mos	26.0	20.0		
	HR: <i>P</i> = .	0.59 .071		

- Similar benefit was observed in patients with PI3K/AKT/PTEN-activated and nonactivated tumors
- 39% of patients in the capivasertib + fulvestrant arm required dose reductions, primarily due to diarrhea and rash, and 12% discontinued due to toxicity

Agenda

Module 1: Evolving Clinical Decision-Making for Patients with ER-Positive, HER2-Negative Localized Breast Cancer

- Dr O'Regan: A 54-year-old postmenopausal woman with ER-positive, PR-negative, HER2-negative pT1cN1 breast cancer
- Dr Mahtani: A 43-year-old woman with 6-cm ER-positive, HER2-negative localized breast cancer

Module 2: Selection and Sequence of Therapy for ER-Positive, HER2-Negative Metastatic BC (mBC)

- Dr O'Regan: A 55-year-old woman with ER-positive, PR-negative, HER2-negative mBC
- Dr Mahtani: A 50-year-old woman with ER-positive, HER2-negative mBC germline BRCA2 mutation
- Dr Partridge: A 37-year-old woman with ER-positive, HER2-negative mBC germline BRCA1 mutation

Module 3: New Directions in the Treatment of Triple-Negative Breast Cancer (TNBC)

• Dr Partridge: A 52-year-old woman with metastatic TNBC – PD-L1-positive



A 35-year-old woman with triple-negative breast cancer receives neoadjuvant anthracycline/taxane therapy followed by surgery and capecitabine but 1 year later develops PD-L1-negative, BRCA-negative metastatic disease. What would be your next treatment?

- 1. Chemotherapy
- 2. Chemotherapy + anti-PD-1/PD-L1 antibody
- 3. Sacituzumab govitecan
- 4. Other



Case Presentation – Dr Partridge: A 52-year-old woman with metastatic TNBC – PD-L1-positive



Dr Ann Partridge

- 10/2018: Initially diagnosed with left-sided TNBC
 - Neoadjuvant dd-ACT with an excellent, but not full response
 - Left mastectomy and SLNB \rightarrow adjuvant capecitabine x 6 cycles
- Presented with left chest wall pain and was found to have recurrent disease in three areas in the left chest wall, including 2 chest wall nodules and one bone/rib lesion
- PD-L1-positive TNBC
- Atezolizumab/nab-paclitaxel, painful chest wall lesion resolved after first cycle

Questions

- Which assay are you using to assess PD-L1 levels and why?
- How do you sequence therapy in a patient with metastatic TNBC given new agents such as atezolizumab/nab-paclitaxel and sacituzumab govitecan? Which ones should we be reaching for first and why?



pCR rates in randomized TNBC neoadjuvant studies

GeparNUEVO	NeoTRIPaPD-L1	KEYNOTE-522	IMpassion 031
Nab-paclitaxel -> EC q2 week	Nab-paclitaxel + Carbo weekly 2 on / 1 off x 8	Paclitaxel + Carbo -> AC/EC q3 week	Nab-paclitaxel -> AC q2 week
+/- Durvalumab (no adj)	+/- Atezolizumab (no adj)	+/- Pembrolizumab 1 year	+/- Atezolizumab 1 year
pCR = 53.4% vs 44.2%	pCR = 43.5% vs 40.8%	pCR = 64.8% vs 51.2%	pCR = 57.6% vs 41.1%
∆ 9.2% (n=174)	∆ 2.7% (n=280)	∆ 13.6% (n=602)	∆ 16.5% (n=333)
		pCR = 63% vs 55.6%	
		∆ 7.5% (n=1174)	

Courtesy of Melinda Telli, MD



GeparNUEVO Secondary Endpoints

Median follow-up > 3.5 years

Invasive DFS





Presented By:

Courtesy of Melinda Telli, MD

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San Antonio Breast Cancer Symposium[®], December 10-14, 2019

KEYNOTE-522 Study Design (NCT03036488)



Carboplatin schedule (Q1W vs Q3W)

Neoadjuvant phase: starts from the first neoadjuvant treatment and ends after definitive surgery (post treatment included) **Adjuvant phase:** starts from the first adjuvant treatment and includes radiation therapy as indicated (post treatment included)

Courtesy of Melinda Telli, MD

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Phase I/II Sacituzumab Govitecan (IMMU132) in Metastatic TNBC



Median prior number of therapies = 3 (range 2-10)

Dose = 10 mg/kg IV days 1, 8 every 21 days

Response rate = 33%

Duration of response = 7.7 months

<u>Common side effects:</u> Neutropenia, Anemia, Diarrhea, Nausea, Fatigue

Bardia A, et al. NEJM 2019

ACCELERATED FDA APPROVAL APRIL 22, 2020

Indicated for patients with mTNBC who received at least 2 prior regimens for advanced disease

Courtesy of Melinda Telli, MD

ASCENT: A Phase 3 Confirmatory Study of Sacituzumab Govitecan in Refractory/Relapsed mTNBC



NCT02574455

- Geographic region (North America vs Europe)
- Presence/absence of known brain metastases (yes/no)

*TPC: eribulin, vinorelbine, gemcitabine, or capecitabine. [†]PFS measured by an independent, centralized, and blinded group of radiology experts who assessed tumor response using RECIST 1.1 criteria in patients without brain metastasis. [‡]The full population includes all randomized patients (with and without brain metastases). Baseline brain MRI only required for patients with known brain metastasis. ASCO/CAP, American Society of Clinical Oncology/College of American Pathologists; DOR, duration of response; DSMC, Data Safety Monitoring Committee; IV, intravenous; mTNBC, metastatic triple-negative breast cancer; ORR, objective response rate; OS, overall survival; PFS, progression-free survival; R, randomization; RECIST, Response Evaluation Criteria in Solid Tumors; TTR, time to response. National Institutes of Health. https://clinicaltrials.gov/ct2/show/NCT02574455.

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Antibody-Drug Conjugates Under Investigation in Metastatic TNBC

	Trastuzumab deruxtecan	Ladiratuzumab vedotin	Datopotamab deruxtecan
Other name:	DS-8201a	SGN-LIV1A	DS-1062a
Target:	HER2 (IHC 1+ / 2+)	LIV-1	Trop-2
Cytotoxic:	Topoisomerase I inhibitor	MMAE	Topoisomerase I inhibitor

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ASCO Highlights and More: Investigators Review Recent Data Sets and Provide Perspectives on Current Oncology Care

A Daylong Multitumor Educational Webinar in Partnership with the Texas Society of Clinical Oncology (TxSCO)

Saturday, June 26, 2021 8:00 AM – 3:00 PM Central Time (9:00 AM – 4:00 PM Eastern Time)



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